

SAN BERNARDINO COUNTY

FLOOD CONTROL DISTRICT



ZONE 1

ADVISORY

COMMITTEE



Fiscal Year 07/08 Budget Hearing
City of Rancho Cucamonga
Tri-Communities Room
May 24, 2007



**SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
ADVISORY COMMITTEE MEETING**



**ZONE 1
FY 2007/2008 BUDGET HEARING
May 24, 2007
9:00 A.M.**

A G E N D A

1. Open Meeting and Introduce Zone Advisory Committee Members and Staff
2. Approve Quarterly Meeting Minutes dated January 18, 2007
3. Colonies Settlement Update
4. Project Status
 - Construction
 - Planning/Engineering
5. New Project Requests
 - ❖ City of Chino Hills
 - ✓ Continue funding English Channel improvement project
 - ✓ Consideration of funding for the Pine avenue extension project
 - ❖ City of Rancho Cucamonga
 - ✓ Request for funding to upgrade Cucamonga Storm Drain
 - ❖ City of Upland
 - ✓ Request for funding Euclid Avenue Storm Drain
 - ✓ Request for funding Foothill Boulevard Storm Drain
 - ❖ San Bernardino County Flood Control District
 - ✓ Request for modifying the outlet gate for San Sevaine Basin #5
6. Budget and Construction Program
 - Status of Present Fiscal Year 2006/2007
 - Fiscal Year 2007/2008 Budget Study
 - 10-Year Plan
7. Budget Workshop
8. Public Comments
9. Recommend Fiscal Year 2007/2008 Budget to Board of Supervisors
10. Tentative Next Quarterly Meeting Date – September 13, 2007 @ 9 am – City of Rancho Cucamonga, Tri-Communities Room.
11. Adjournment

ZONE 1 COMPLETED PROJECTS

PROJECT	YEAR INITIATED	YEAR COMPLETED	COST
Brooks Street S/D	1997	1998	\$1,008,265
Ely Basin #3	1994	1999	\$2,168,661
San Sevaine -Foothill/Whitram	1991	1999	\$3,865,302
Grove Detention Basin	1998	2000	\$4,681,916
Riverside S/D Segment 1	1998	2000	\$903,032
Jurupa Basin	1997	2001	\$6,786,914
20th Street S/D	1998	2001	\$15,613,936
Hickory Basin	1988	2001	\$10,183,923
Chino Storm Drain	2000	2002	\$118,380
East Rialto S/D	2001	2002	\$260,210
Riverside S/D Segment 2	1998	2002	\$242,638
West Cucamonga Channel	1986	2002	\$5,634,978
Sultana-Cypress S/D	2002	2003	\$137,800
West State Street S/D Segments 1 & 2	1986	2003	\$8,075,758
Riverside S/D Segment 2-2	1998	2004	\$6,423,857
San Sevaine Basin #5	1988	2004	\$10,928,266
West State Street S/D Segment 3	1986	2005	\$3,974,625
Riverside S/D Segment 2-3	1998	2005	\$1,427,596
San Sevaine Channel -Jurupa to Philadelphia	1992	2007	\$7,860,823
San Antonio S/D	2005	2007	\$720,005



PRIORITY PROJECTS

STATUS

ZONE 1 PRIORITY PROJECTS

RANK	AGENCY	1987 PROJECT	CURRENT PROJECT	STATUS
1	Upland	9th Street Storm Drain	South Upland Storm Drain (SUSI)	completed 1990
2	Rancho Cucamonga	Hermosa-Turner Storm Drain	Hermosa-Turner Storm Drain	completed Dec. 2004
3	Montclair	San Bernardino Storm Drain	San Bernardino Storm Drain	completed 1987 (Ph I) and 1995 (Ph II)
4	Fontana	West Fontana Channel	West Fontana Channel Ph I, I basin & II	funding available 14/15
5	Ontario	4th Street Storm Drain	Francis Street Storm Drain ***	funding available 15/16
6	Chino	Yorba Ave. Storm Drain	Little Chino Creek Channel *	completed Jan. '99
7	Chino Hills	Not Available	English Channel/Peyton Dr. **	to be constructed by City in 2007 (District funding available 15/16)

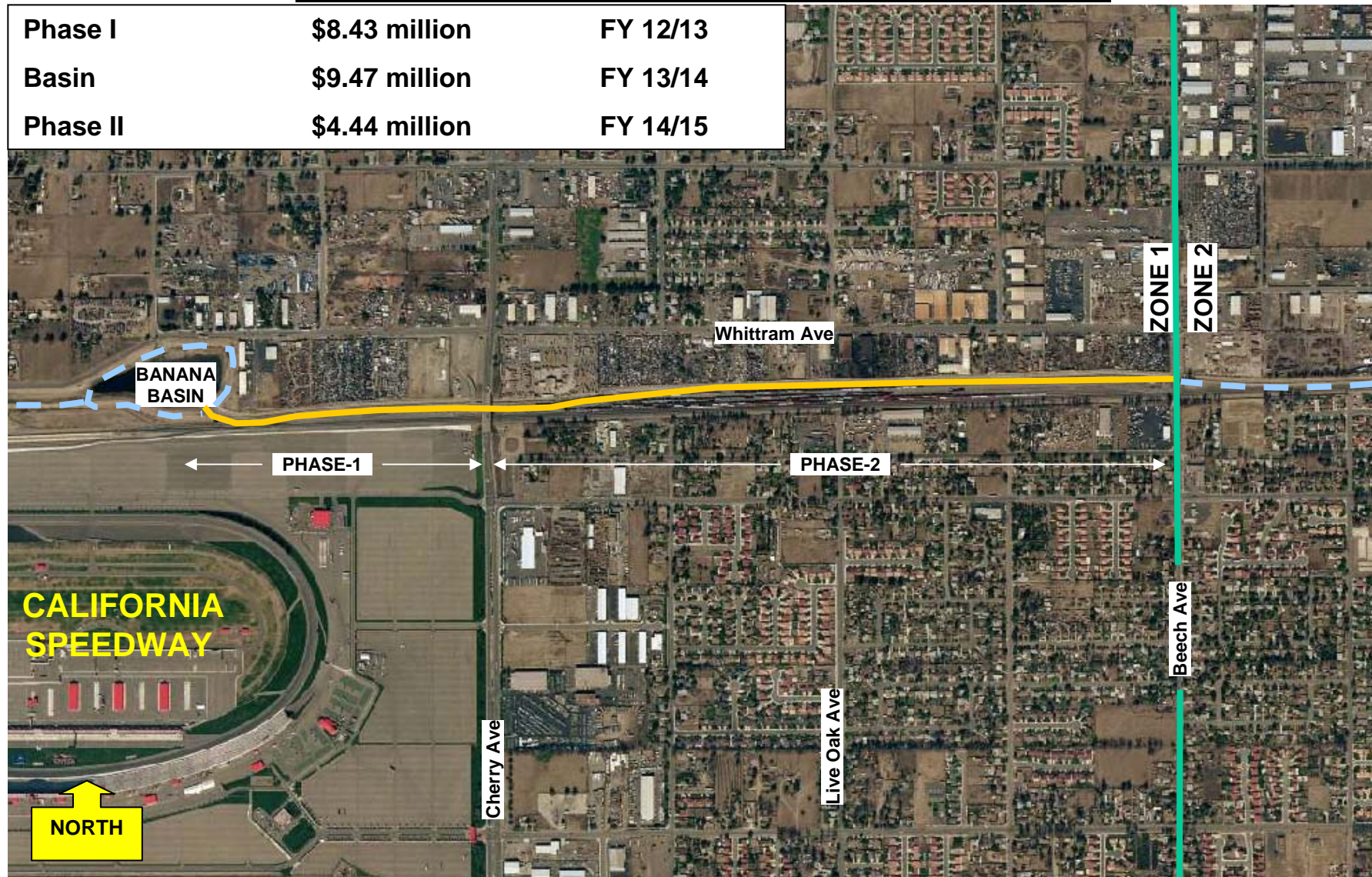
* Per City of Chino request dated May 5, 1993

** Per City of Chino Hills request dated March 1, 1993 to be included in participation formula

*** Per City of Ontario request 1999 and 2000

FONTANA - West Fontana Channel

Phase I	\$8.43 million	FY 12/13
Basin	\$9.47 million	FY 13/14
Phase II	\$4.44 million	FY 14/15



The project scope is to design and construct a concrete lined channel from Banana Basin to Beech Ave. with a basin in the Zone 2 portion of the project, at the current estimated project cost of \$25.8 million not including R/W. RDA and the City of Fontana have agreed to cost share 10% and 25% of project costs respectively. Zone 2 will contribute 30% of the District cost for the improvements to the Basin, which will reduce the downstream facility sizes.

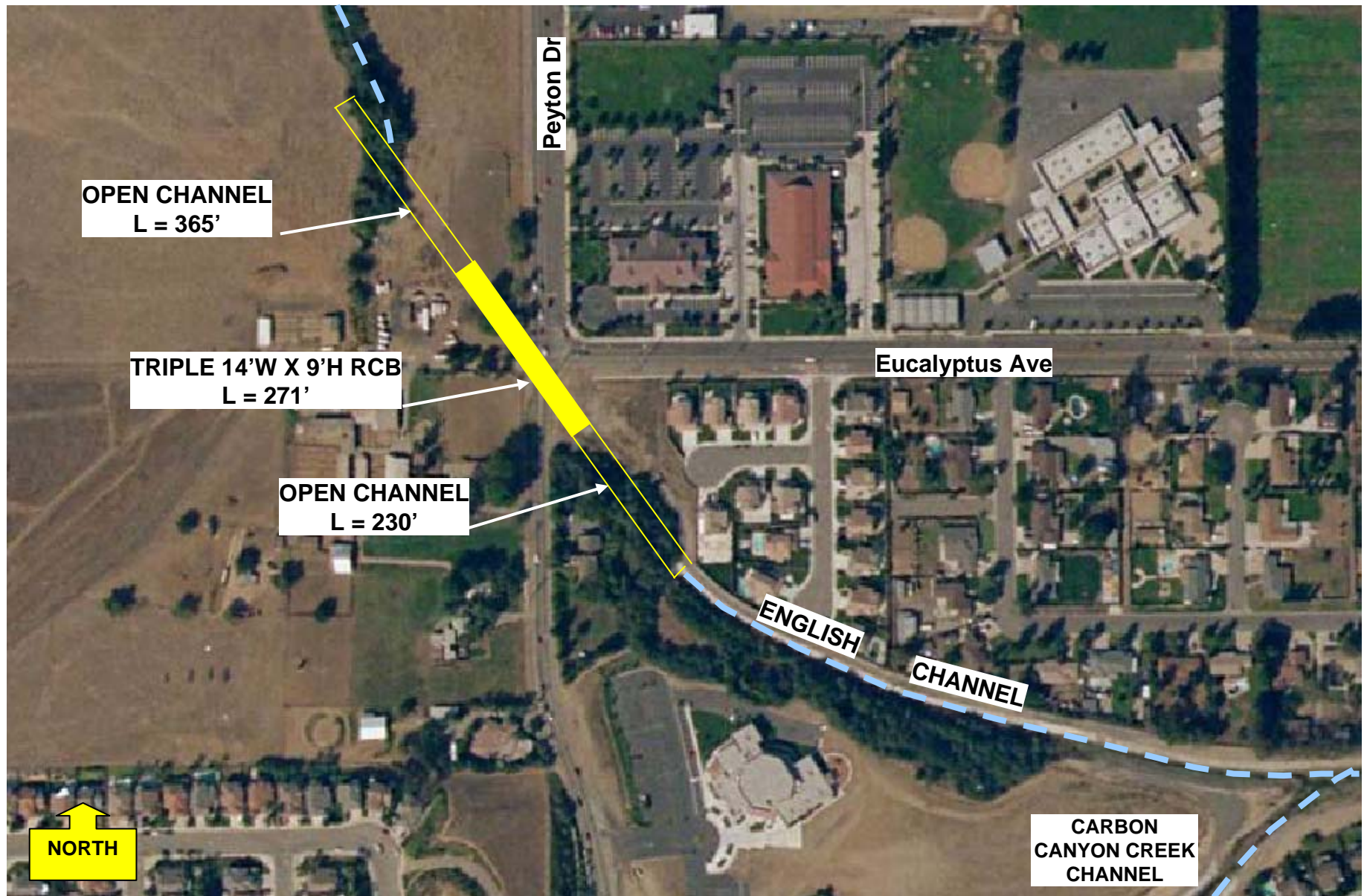
Phase 1, from Banana Basin easterly to Cherry Ave. including a detention basin within Zone 2, is on hold. Phase 2 of the project is from Cherry Ave. to Beech is also on hold. The last phase of the project is a portion of the channel from the new basin to Citrus in Zone 2.

ONTARIO – Francis Street Storm Drain

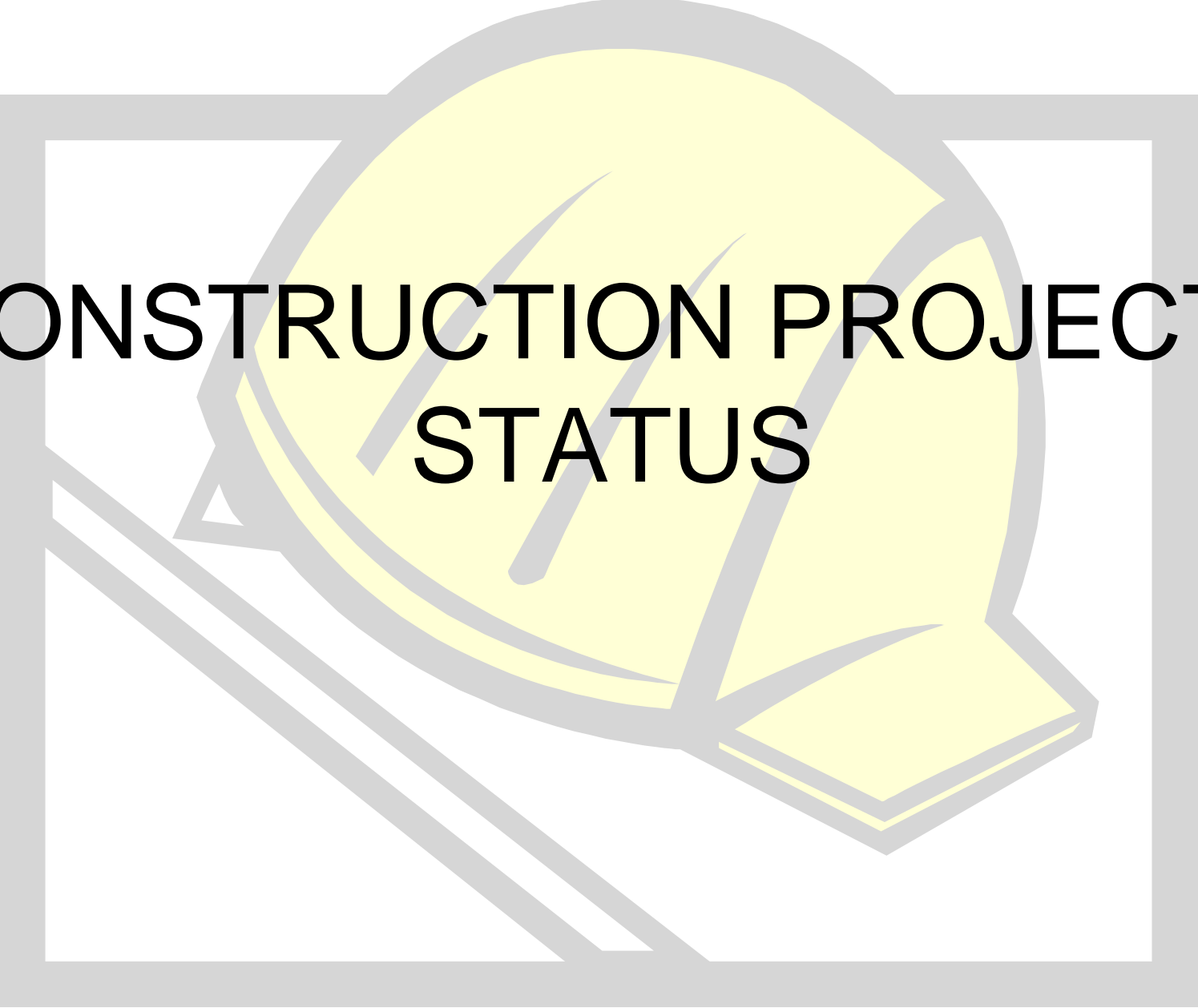


Francis Street Storm Drain is an interim regional Storm Drain operated and maintained by the District. The City has identified a need to construct ultimate improvements to this facility. The current construction cost are estimated at \$8.5 million where the District share shall be 75% of the project cost. The City will be the lead agency, to prepare all construction plans, specifications and cost estimates and accomplish construction administration. The District funding will be available in FY 15/16.

CHINO HILLS - English Canyon at Peyton Drive

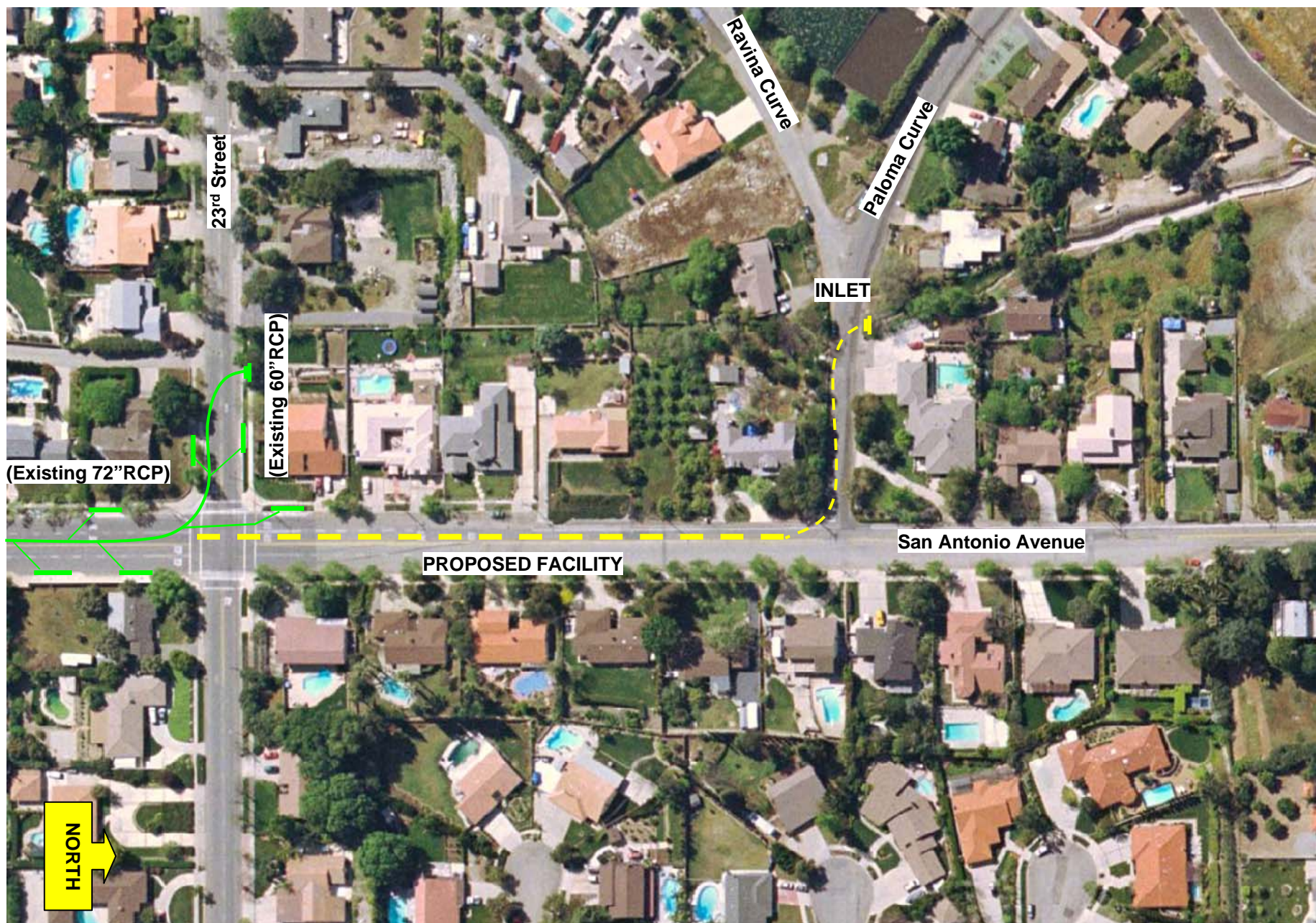


City of Chino Hills has selected RBF Consulting to accomplish preliminary engineering studies and environmental documents for this Priority Project. Meetings between City, Consultant and District have established hydrology and hydraulic design requirements for the proposed triple 14' x 9' RCB crossing at Peyton Avenue. The revised environmental document is en route to FHWA for review. The City expects construction to start in summer 2007. City has obtained EPA grant towards partial funding of the project with the District contributing \$433,208 for preliminary engineering, right-of-way and preparation of construction plans. ZAC recommended \$300,000 allocation of Zone 1 funds into this project in FY 05/06 with the remaining funding to be paid when available from the priority project funds. Currently the expected District funding date is FY 15/16.



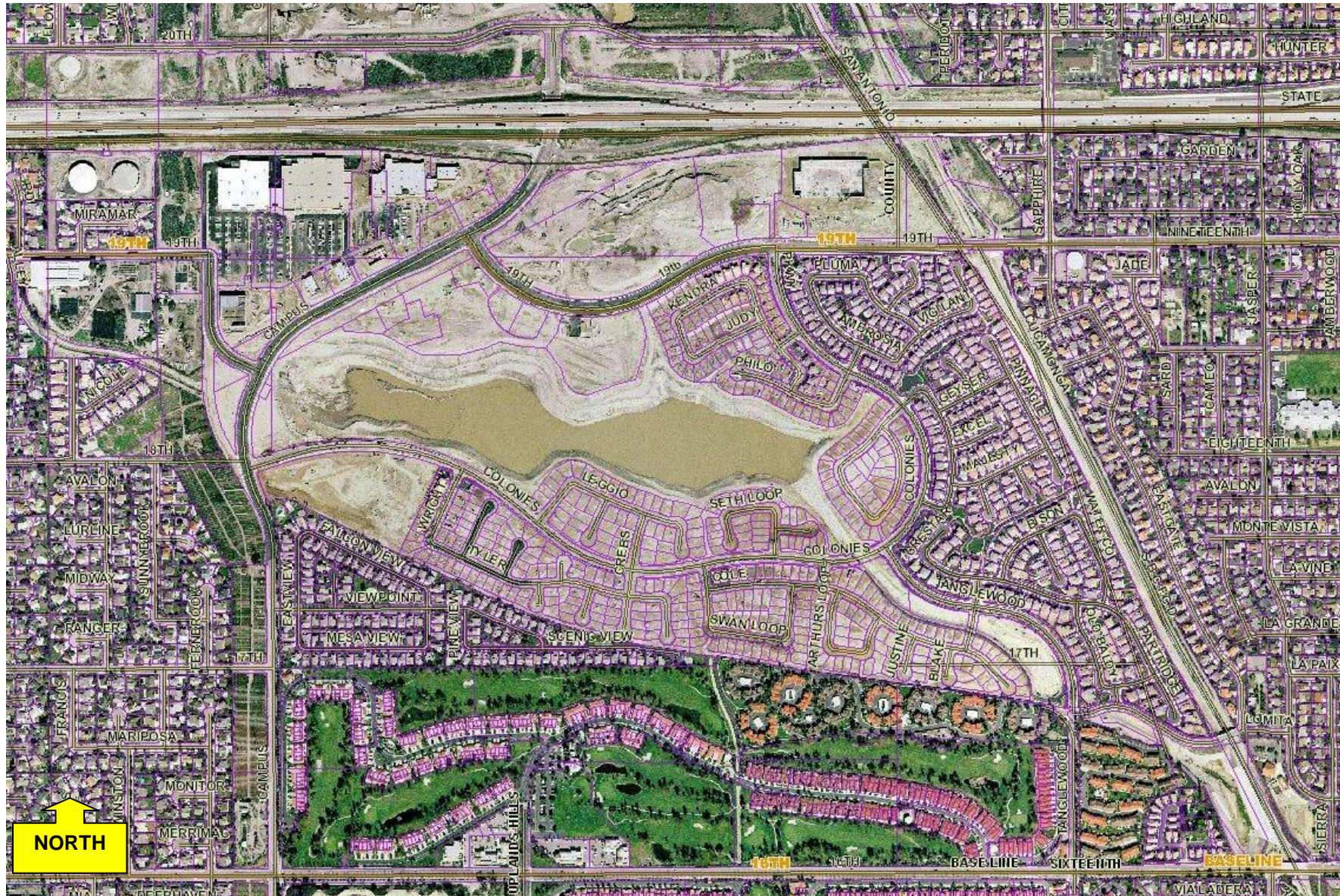
CONSTRUCTION PROJECTS STATUS

DISTRICT – San Antonio Storm Drain



Project is to extend the existing storm drain along San Antonio Avenue from 23rd Street to Ravina Circle at Paloma Curve. Lowest bid was \$720,000. Construction started February 2007 and was completed in May 2007.

UPLAND – Cucamonga Basin #6



Project is to improve the existing Cucamonga Basin #6. Preliminary cost estimate is \$30 million. The project needs to be completed within three years.

ONTARIO - Sultana Cypress Storm Drain

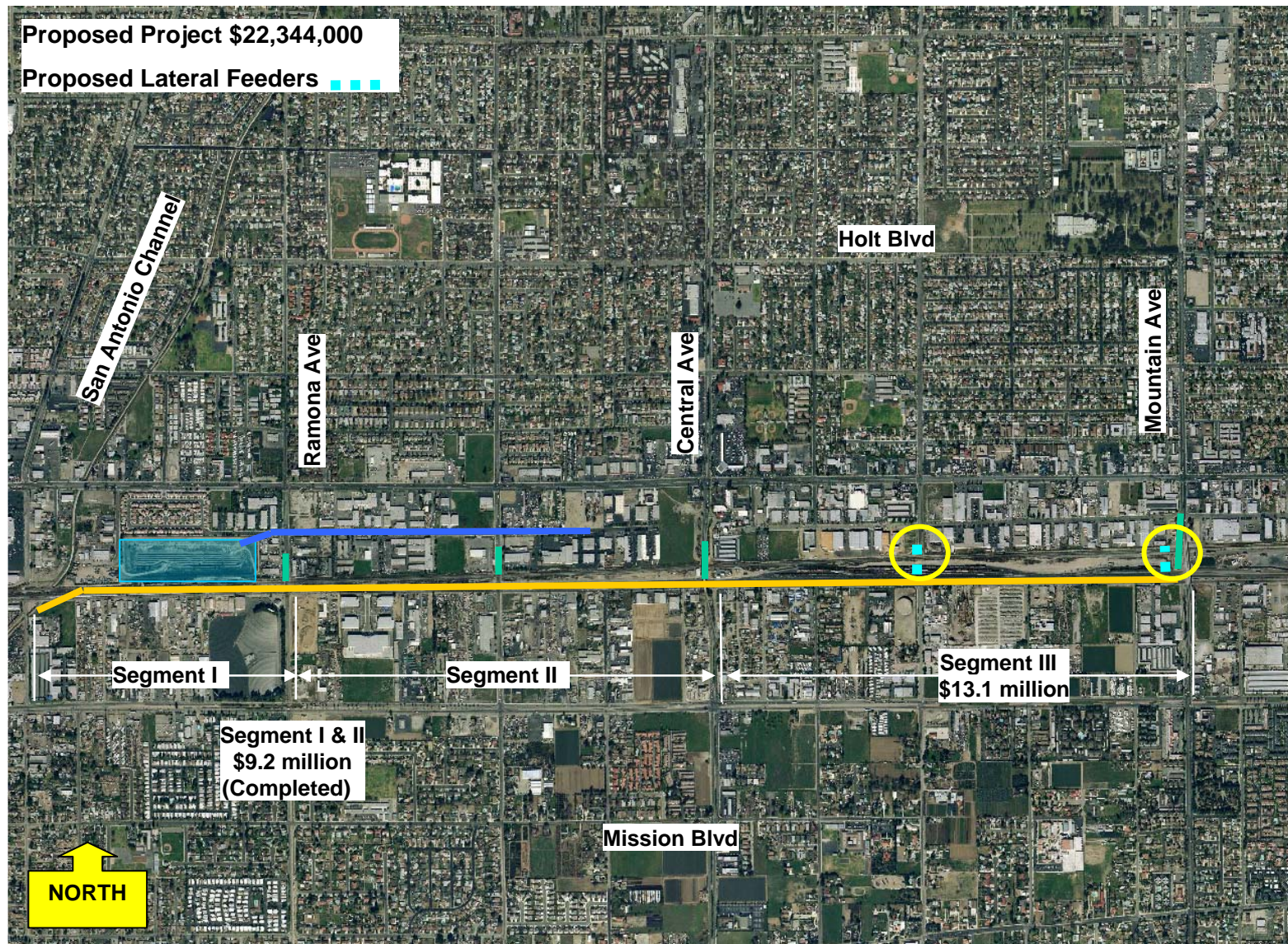


Natural Resources Conservation Service (NRCS) made available a grant to the District for use in developing the last piece in the umbrella of protection for the Chino Dairy Preserve, by intercepting the storm flows entering along the northerly boundary. The grant provides for NRCS reimbursement for 85% of the construction cost up to a maximum of \$5.6 million. The existing Sultana/Cypress Channel will be reconstructed from Walnut Street to Euclid Avenue. The proposed project is from Euclid Ave to Philadelphia St. and the estimated project cost is \$10 million.

The project was separated into two phases to meet NRCS time schedule. Phase 1 included the construction of channel walls from Chino Avenue northerly to San Antonio Avenue. The construction was completed for \$137, 800 in June 2003.

Per current schedule, funding for the construction of Phase 2A (jacking) will be available in 07/08 at a current estimated cost of \$2.65 million (including contingencies and contract admin.). Funding for the construction of Phase 2B (mainline) will be available FY 09/10 at a current estimated cost of \$7.4 million (including contingencies and contract administration.)

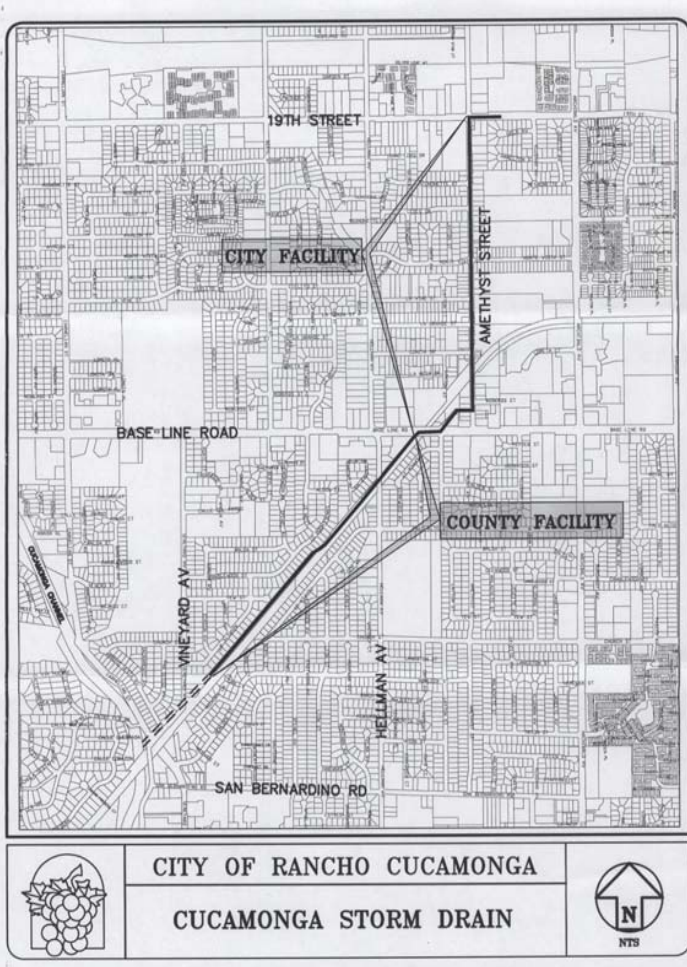
MONTCLAIR - West State Street Storm Drain



Segment #1 (San Antonio Channel to Ramona Ave.) and Segment #2 (Ramona to Central) construction was completed in June 2003 at a final construction cost of \$9,226,480, including \$800,000 in construction management.

Segment #3 includes channel construction (Central to Mountain) and jacking of double-box culvert under railroad tracks at Mountain Ave. and Benson Ave. The contract for the jacking was completed in February 2005 for \$3,974,625. Start of construction of Segment #3 channel is scheduled for FY 11/12. Estimated construction cost for this channel portion is \$9.143 million.

RANCHO CUCAMONGA – Cucamonga Drain



Project is to upgrade Cucamonga Storm Drain, from Cucamonga Channel to Amethyst Avenue, to meet current District standards. City will accept operation and maintenance of facility after improvements. Construction cost estimate = \$4.5 million. District share is \$2.6 million.

ETIWANDA/SAN SEVAINE CREEKS - UPPER REACH

San Sevaire Basin #5

Improvements included expansion of the existing basin to provide the capability to reduce the Q100 inflow of 13,000 cfs to an outlet flow of 5,000 cfs. Contract was awarded May 20, 2003 to SEMA Construction for \$9,461,669. In addition, a contract for \$460,600 was awarded to AMEC Earth & Environmental to provide geotechnical and technical services; and a contract awarded to Pacific Southwest Biological Services for \$137,000 to provide biological services. Work consists of enlarging the basin floor area, raising southern levee 30 to 40 feet, reconstructing spillway to 200 feet wide, 10 ft. x 8 ft. Reinforced Concrete Box (RCB) outlet, paved access roads and water conservation improvements. Basin will have 2350 ac-ft maximum storage and 234 ac-ft conservation storage. Construction was completed October 2004 and the final contract amount was \$10,928,266.

Etiwanda Debris Basins & Levees and–

Etiwanda Channel – 24th Street (Wilson) to San Sevaire Basin #5

Construction of approximately 4,300 linear feet of 11-foot high by 24-foot wide rectangular reinforced concrete channel, with reinforced concrete box culverts at 24th Street (Wilson Avenue), old Banyan Street (old Summit Avenue) and at realigned new Banyan Street has been combined with the debris basin and levees project. Four Biological Opinions were issued by the US Fish and Wildlife Service (May 9, 1995, February 7, 2002, May 31, 2003 and October 24, 2003). Field geotechnical studies were completed by the consultant, AMEC Earth and Environmental Consultants (formerly AGRA) in July 2002 and the Seismic Report was submitted in August 2002 and approved by the District. Tetra Tech, Inc was selected in May, 2003 to provide final design and construction support services. Design contract is \$336,437. Final plan and specifications were approved by DSOD and the Board on January 25, 2005. The Board awarded the contract to Yeager Skanska Inc. of Riverside, California on June 7, 2005 in the amount of \$26,410,088. Construction started July 5, 2005. The remaining work is all within the debris basin portion. Construction & material processing should be completed by spring 2008.

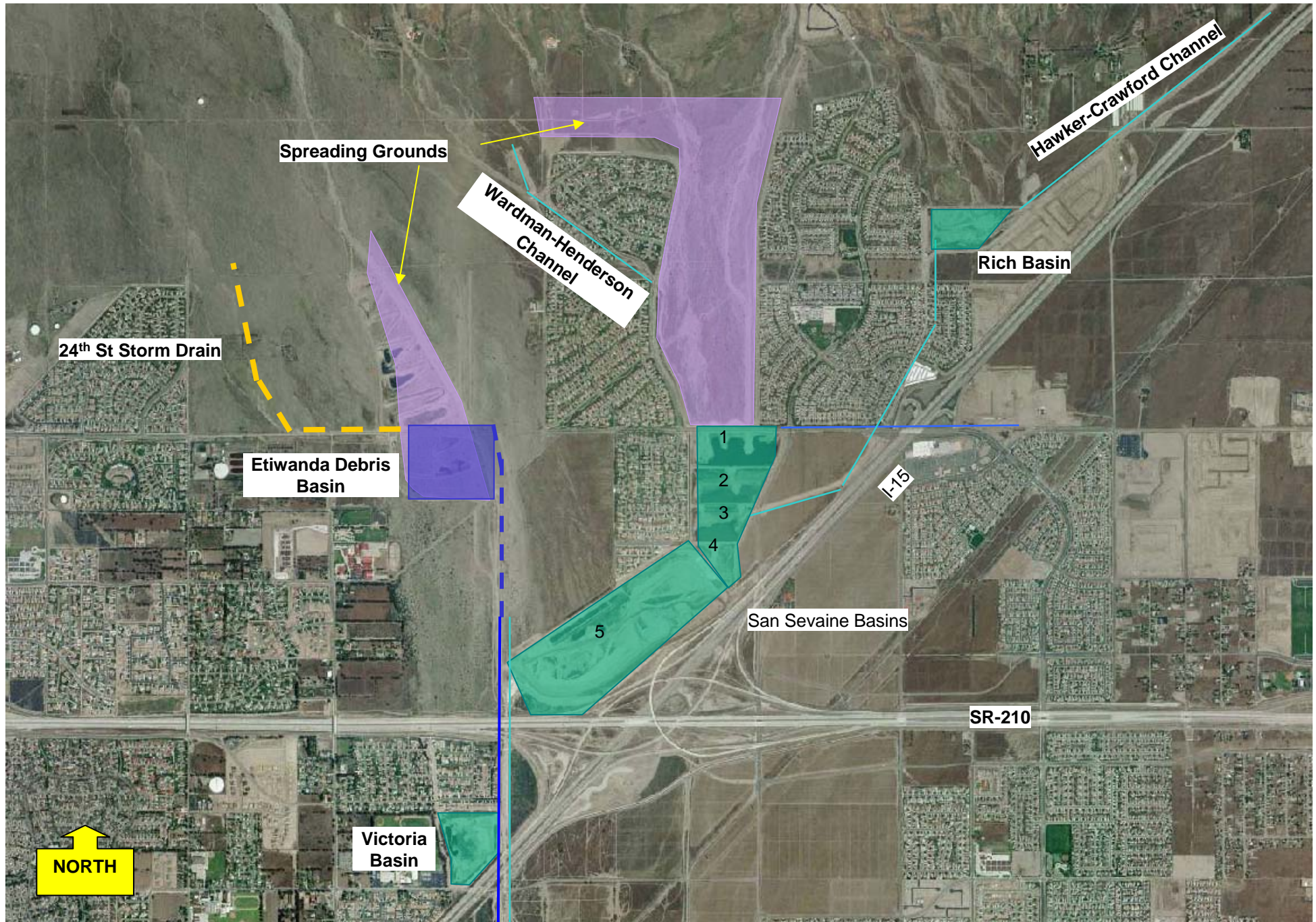
Turnout from Etiwanda/San Sevaire into Victoria Basin

IEUA completed the turnout from Etiwanda Channel. Per the District's agreement with IEUA, IEUA was to construct the turnout from San Sevaire Channel to Victoria Basin for \$150,000. Due to San Sevaire Channel being damaged during the Christmas Day storm of 2003, the District will construct the San Sevaire Channel turnout when the damaged portion of San Sevaire Channel is repaired. The estimated cost of construction is \$2.35 million. Construction is anticipated in Spring 2008.

San Sevaire Basins 1-4

Proposed improvements for San Sevaire Basins 1 through 4 are not included in the overall Bureau of Reclamation project but are necessary for the completion of the entire system. The current cost estimate for a study and design is \$4 million. Funding is currently shown as available in FY 10/11.

ETIWANDA/SAN SEVAINE CREEKS – UPPER REACH



ETIWANDA/SAN SEVAINE CREEKS - MIDDLE REACH

Etiwanda at Foothill -

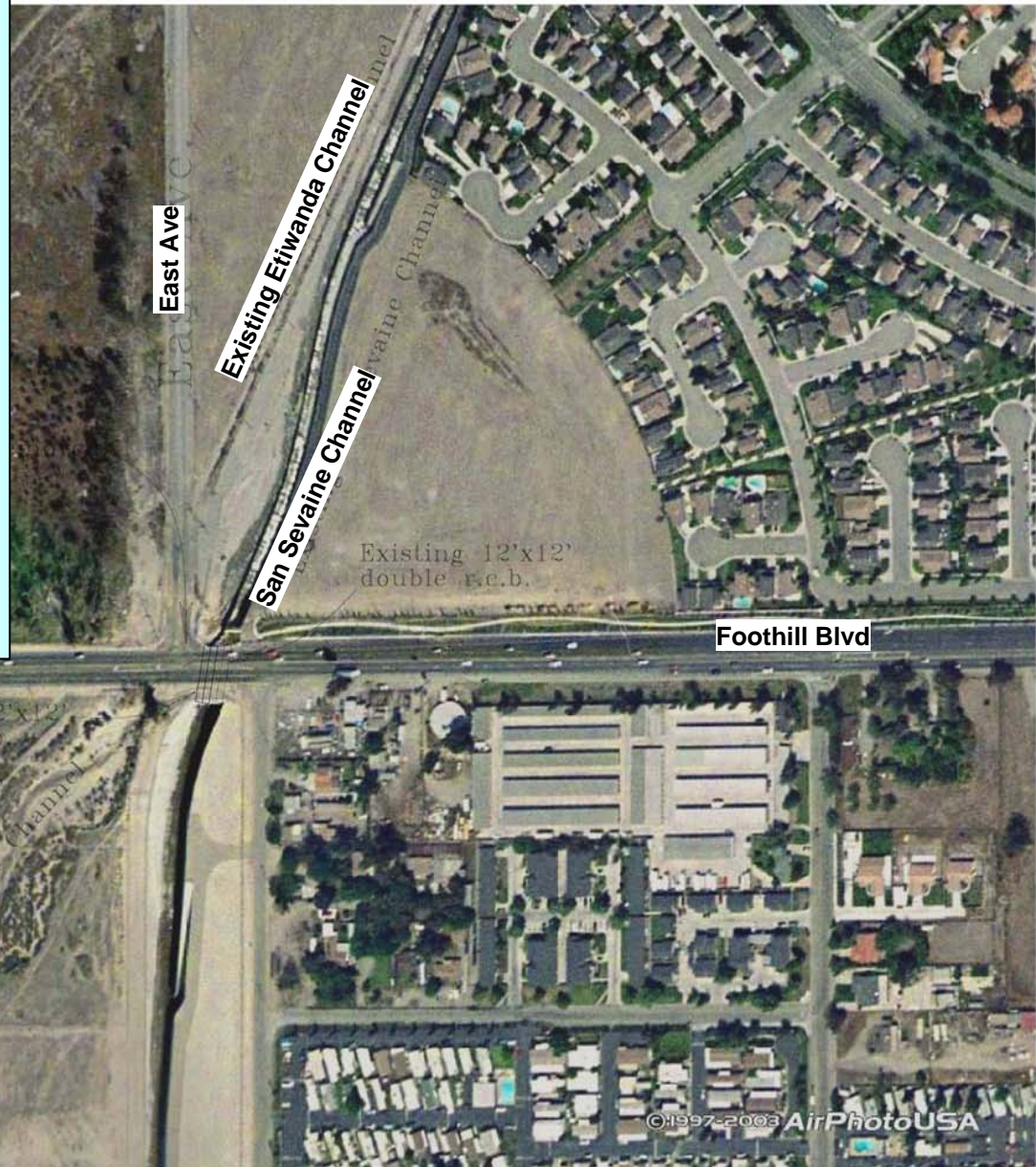
While the existing San Sevaine Channel passes under Foothill Blvd and proceeds down an improved channel, the existing Etiwanda Channel passes under Foothill Blvd through an old bridge, and veers at a sharp angle to the south-west into the undeveloped Etiwanda creek.

The project will construct a new reinforced concrete double-box structure under Foothill Blvd., adjacent to the existing double-box structure and combine the flows from Etiwanda and San Sevaine systems, as they travel south of Foothill Blvd. The existing bridge structure will be demolished and backfilled.

The design calls for a double-box structure to be added onto the west side of the existing double-box structure. Each box will be a 12-ft x 12-ft reinforced concrete box and will be about 128-ft in length under the entire traveled way of Foothill Blvd. Approximately 800-ft of the reinforced concrete channel upstream of Foothill Blvd will be constructed to direct the flows safely into the new reinforced concrete double-box structure. This upstream portion of the channel will be constructed to match up to the existing Etiwanda Channels' vertical concrete walls, already in place. Likewise, a 50-ft channel wall transition section will be built on the west bank of the south side of the new reinforced concrete double-box structure to join the existing trapezoidal channel downstream.

A detailed traffic detour plan will be developed as part of the construction plans to account for the heavily traveled Foothill Blvd. The project is estimated be at approx. \$4.5 million, including construction administration, Inspection, material testing, and surveying. Construction is anticipated to start in Spring 2008 depending on funding, which is currently shown as available FY 07/08.

ETIWANDA/SAN SEVAINE CREEKS - MIDDLE REACH



ETIWANDA/SAN SEVAINE CREEKS - LOWER REACH

San Sevaire Channel/Jurupa to Philadelphia Ave. –

Work consists of approximately 4,576 LF of reinforced concrete rectangular channel from Philadelphia Ave. (Riverside Co.) northerly to 600-feet south of Jurupa Ave. Work includes construction of reinforced concrete triple box culvert at Philadelphia Ave. A 4-party agreement between Riverside County Flood Control, Riverside County Transportation, City of Fontana and SBFGD is required for work within Riverside County. Plans and specs are 100% and awaiting environmental clearances. The four party agreement was approved. The RFP for material testing and inspection for both San Sevaire Channel/Jurupa to Philadelphia and San Sevaire Channel/Slover to Jurupa is came is at \$635,000. The lowest construction bid came in at \$7.8 million. Construction has been completed.

San Sevaire Channel/Slover to Jurupa Basin –

Construction of approximately 4,390 lineal feet of $b = 55"$, $h = 14'$ reinforced concrete rectangular main channel and 3,300 lineal feet of $b=35'$ $h = 8'$ reinforced concrete weir, diversion channel from Jurupa Basin northerly to Slover Ave. Construction includes chute spillway and stilling basin in Jurupa Basin. Plans and specifications are 99% completed and District is currently resolving issue with DSOD regarding maximum allowable flow into Jurupa Basin. Estimated construction cost is \$18.5 million (including contingencies and contract admin.). Construction is underway.

San Sevaire Channel/Valley to Slover Avenue –

Construction of approximately 2,920 linear feet of variable widths and heights concrete channel. Work includes relocating 16-inch and 20-inch high pressure fuel lines owned by SFPP, LP/Kinder Morgan and constructing a four barrel 14-foot by 14-foot pre-cast reinforced concrete box at the Union Pacific Railroad crossing. UP Railroad still has to review and approve plans and issue an license agreement to the District for work within UP Railroad right of way. A Board approved agreement with UP Railroad exists stating the District will pay UP Railroad \$112,000 for their consultant to design the shoofly. Railroad may propose to extent the RCB. The channel also crosses under the 1-10 Freeway and an inlet channel connection for Mulberry Channel. Lowest bidder is \$9.3 million with construction estimated to start summer of 2007.

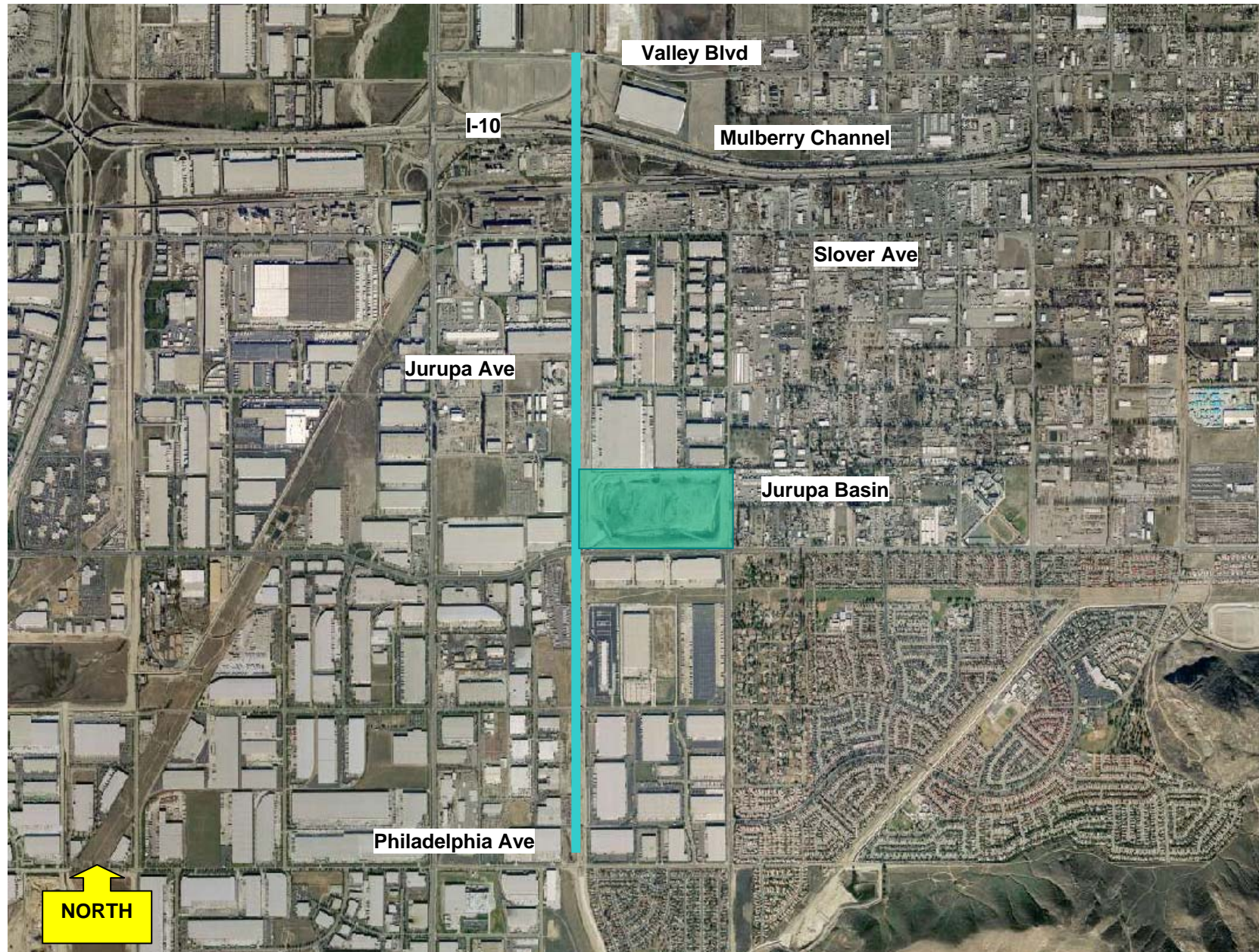
SFPPP/Kinder Morgan 16" and 20" high Pressure fuel line -

The District has an agreement with SFPP/Kinder Morgan and has paid SFPP/Kinder Morgan \$896,000 to relocate both of their lines. The lines should be relocated in summer of 2007. The cost may increase to approx. \$2 million.

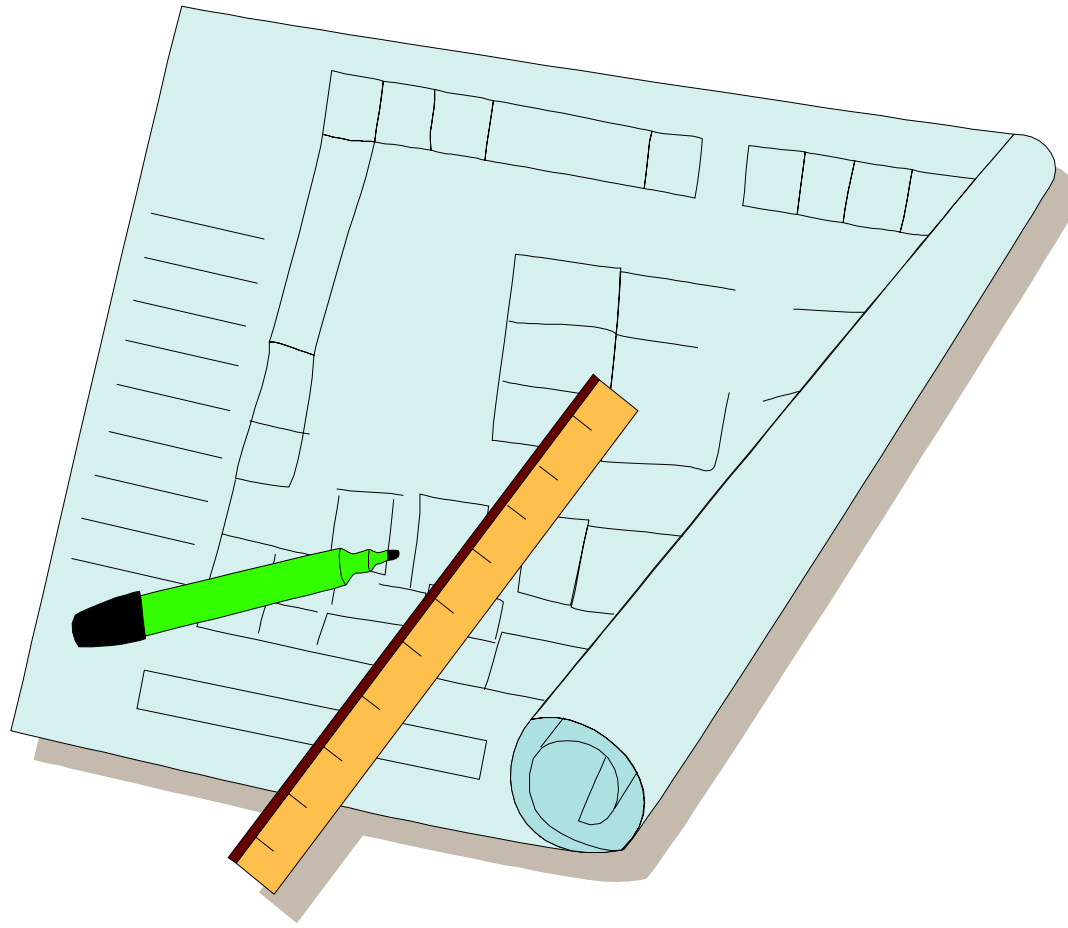
Mulberry Channel repair and reconstruction -

Plans are near complete. Construction of this is anticipated to be in conjunction with the San Sevaire Channel Valley Blvd to Slover Ave section.

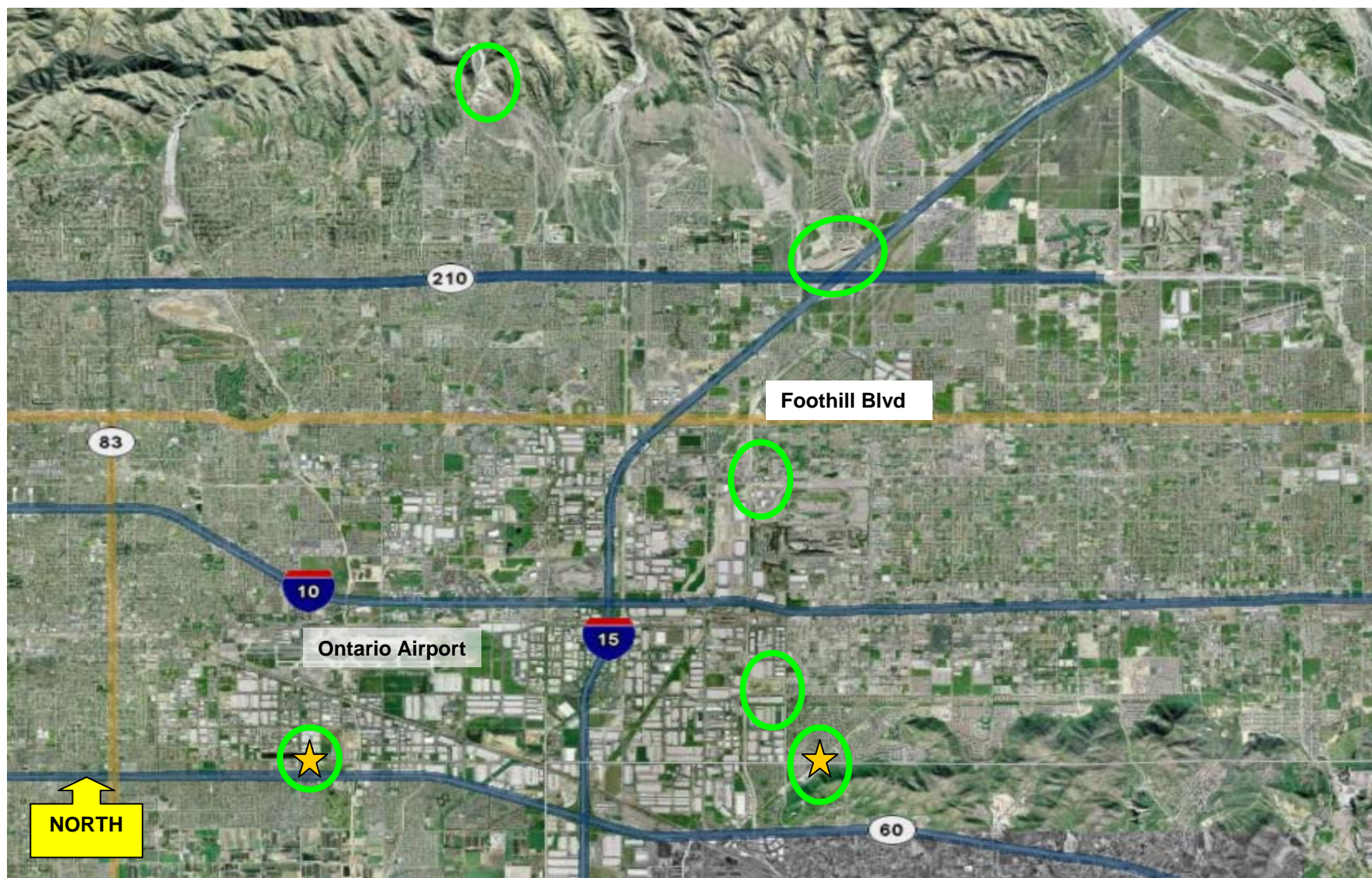
ETIWANDA/SAN SEVAINE CREEKS – LOWER REACH



PLANNING / ENGINEERING PROJECTS

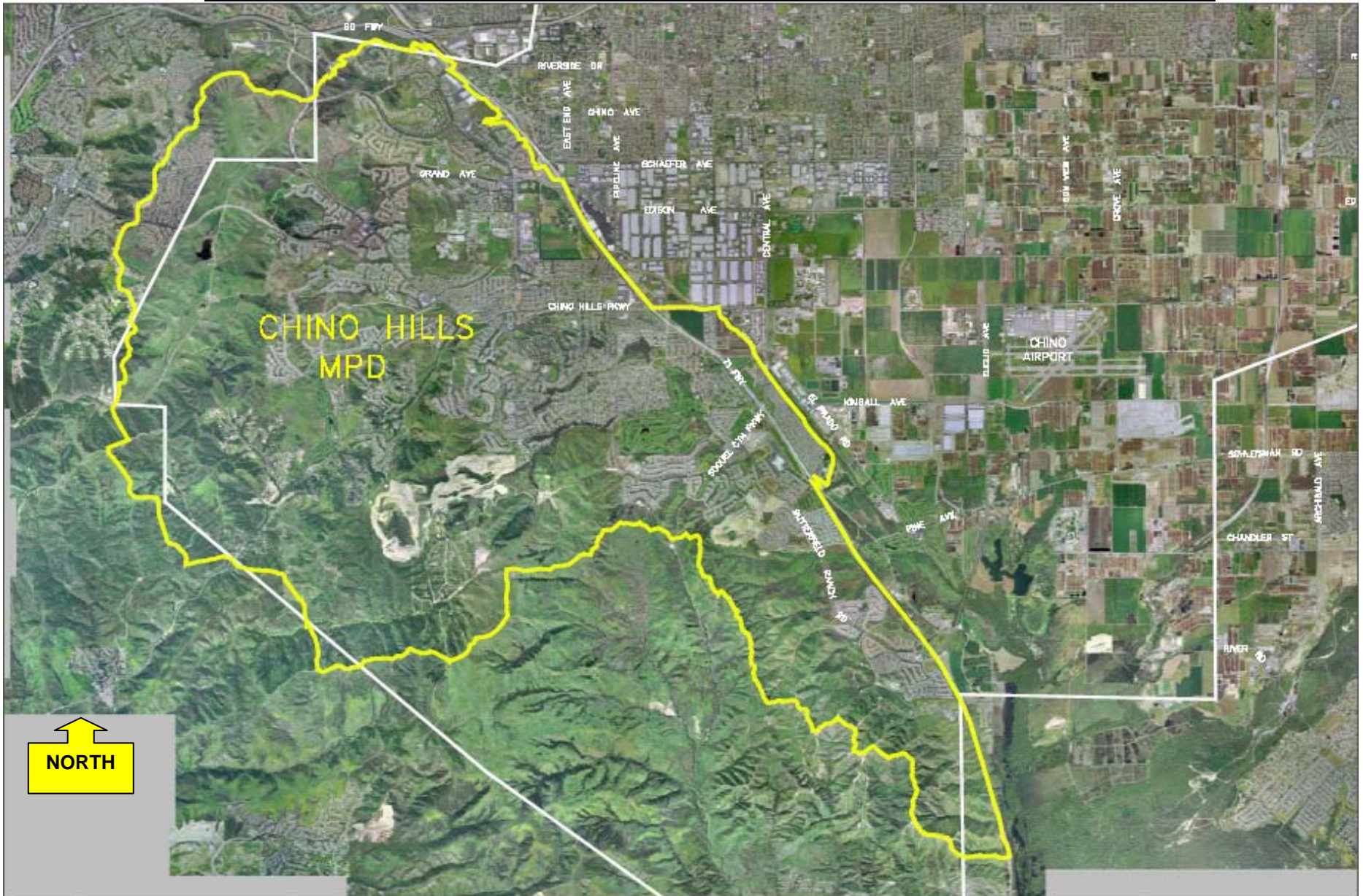


DAM INUNDATION STUDIES



Four firms were selected to accomplish the inundation studies for the eight basins, of which 3 are debris basins. Since debris basins have been excluded from the current Emergency Regulations, contracts were awarded for preparation and OES processing of Dam Break Inundation Studies and Mapping for San Sevaine Basin #5, Hickory Basin, Jurupa Basin, Declez Basin and Ely Basin #3. Ely Basin #3 has been de-certified and does not require a dam break inundation study. Jurupa Basin and San Sevaine Basin #5 inundation maps and studies were forwarded to the California State University, Sacramento Office of Hydrological Studies in September 2006 for technical review. Hickory Basin was returned because it did not meet the requirements. No comments have been received except on Declez Basin, which was approved. Since these regulations do not address debris basins, the review of Deer Creek maps and study has been placed on hold.

CHINO HILLS MASTER PLAN OF DRAINAGE



In July 1996, the Board of Supervisors authorized fund participation of \$50,000 to assist City of Chino Hills to prepare Master Plan of Drainage (MPD). The City's consultant proceeded with the plan and \$25,000 payment to the City was made in August 1996. In July 1998 the City terminated the Consultant's agreement and the MPD was placed on hold. The Zone Advisory Committee allocated an additional \$25,000 from FY 03/04 funds, to supplement the remaining \$25,000 from the original agreement in order to complete the study. Lim and Nascimento Engineering (LAN) was selected to prepare the MPD. The MPD was completed and approved by the District in March 2007.

Levee Certification Project



FEMA is currently stipulating that certain levees be certified. These levees show protection from a 100 year event and if they are not certified within certain FEMA timeframes (~2 years) the Flood Insurance Rate Maps will be changed to show flooding as if the levees did not exist.

The District is working with two consultants to develop a plan for certifying the various levees identified by FEMA within the District jurisdiction. The consultants are gathering information and doing assessments to determine what additional data will be necessary to certify the levees.

The next Phase will be to conduct geotechnical investigations and run further studies to prove the structural integrity of the levees.

NEW PROJECT REQUESTS



CHINO HILLS



City of
Chino Hills

March 1, 2007

Melissa L. Walker, P.E.
Chief, Flood Control Planning Division
County of San Bernardino Department of Public Works
825 East Third Street
San Bernardino, CA 92415-0835

Subject: Request for Flood Control Projects and Priorities, FY 2007/2008

Dear Ms. Walker:

Pursuant to your letter of February 8, 2007, the City of Chino Hills requests consideration of funding for the following projects:

1. Continuation of support for the English Channel Improvement Project. Staff is presently preparing a request for reimbursement for costs associated with planning and environmental review. The NEPA level environmental document is currently in its second review with the Federal Highway Administration and the City expects it to be released for circulation in the spring of 2007. Based upon that timeline, we expect to move forward with construction of the project in FY 2007/2008.
2. Consideration of funding for the Pine Avenue Extension project. This project will construct and realign Pine Avenue between State Route 71 in Chino Hills and El Prado Road in Chino. The boundary line between the two jurisdictions is Chino Creek. Presently, the existing segment of Pine Avenue is closed at both the Chino and Chino Hills access points due to unsafe travel conditions. When Chino Creek floods, which happens regularly, the roadway is impassable and has resulted in fatalities in the past.

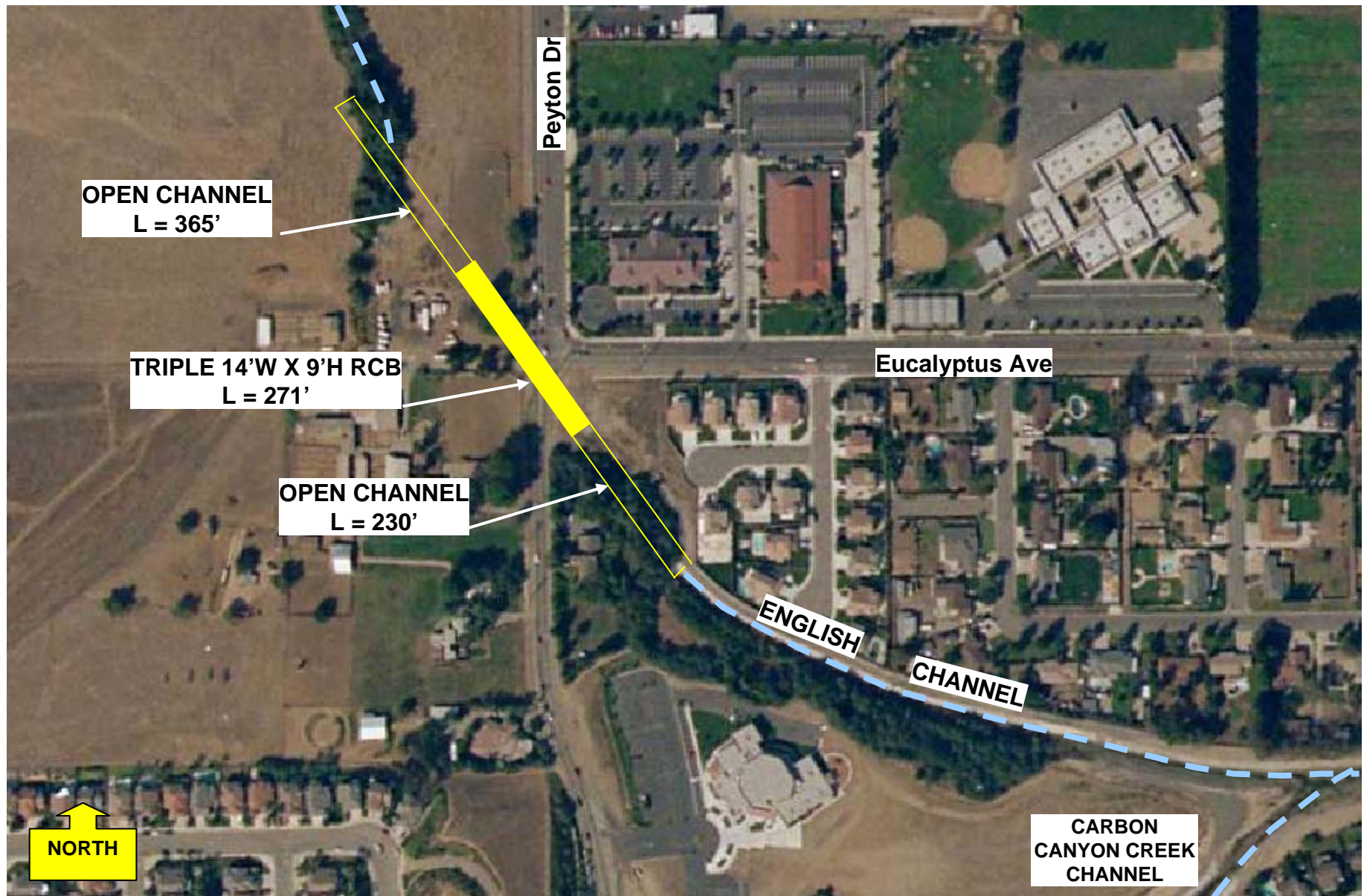
Should you have questions regarding this request, or require additional information, feel free to contact me at (909) 364-2771, or via e-mail at rholland@chinohills.org.

Sincerely,

Raymond T. Holland
Interim City Engineer

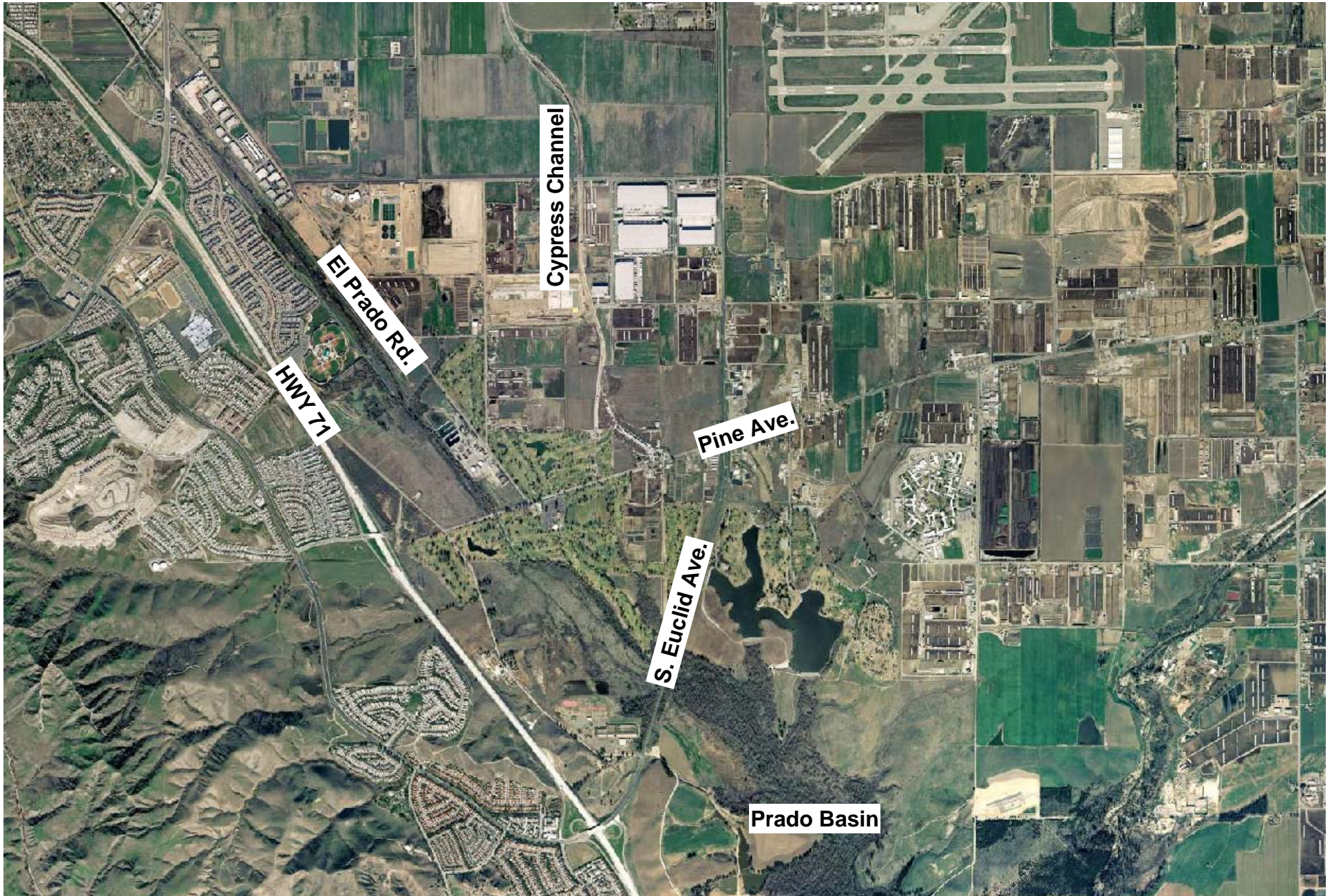
RTH/AD/ps

CHINO HILLS - English Canyon at Peyton Drive



✓ Request for reimbursement for costs associated with planning and environmental review and continuation of funding for the construction of the project in FY 2007/2008.

CHINO HILLS – Pine Avenue Extension project



✓ Request for reimbursement for costs associated with planning and environmental review and continuation of funding for the construction of the project in FY 2007/2008.

RANCHO CUCAMONGA



THE CITY OF RANCHO CUCAMONGA

March 8, 2007

San Bernardino County Flood Control District
825 East Third Street
San Bernardino, CA 92415-0835

Attention: Melissa L. Walker, PE
Chief, Flood Control Planning Director

Subject: RANCHO CUCAMONGA PROJECT PRIORITIES - ZONE 1

Dear Ms. Walker:

First, the City thanks the Zone 1 Advisory Committee for the support Rancho Cucamonga has received in the past.

The City requests the Zone 1 Advisory Committee consider funding for the following project:

<u>Name of Facility</u>	<u>Description</u>
Cucamonga Drain	East of Cucamonga Creek to Amethyst Ave. Upgrade existing Flood Control Facility (see sketch)

The project consists of upgrading the existing flood control facility to accommodate 100 year drainage flows and in turn allows the City to widen Hellman Avenue where it bottlenecks at the old Southern Pacific railroad line. In addition, the City is willing fund 50 percent of the construction, and since the Cucamonga Drain is a County owned facility and since it serves local drainage needs, the City is willing to assume operation and maintenance once it is improved. The storm drain work is currently estimated to cost \$4.5 million. The City would appreciate the Committees continued support of this project.

If you should have any questions, please contact Mr. Jerry A. Dyer at (909) 477-2740, ext. 4037 or email at jdyer@ci.rancho-cucamonga.ca.us.

Mayor
DONALD J. KURTH, M.D.
Mayor Pro Tem
DIANE WILLIAMS
Councilmembers
REX GUTIERREZ
L. DENNIS MICHAEL
SAM SPAGNOLO
City Manager
JACK LAM, AICP

RECEIVED
MAR 13 2007
FLOOD CONTROL DISTRICT
PLANNING DIVISION

San Bernardino County Flood Control District
Subject: RANCHO CUCAMONGA PROJECT PRIORITIES - ZONE 1
March 8, 2007
Page 2 of 2

Cordially,

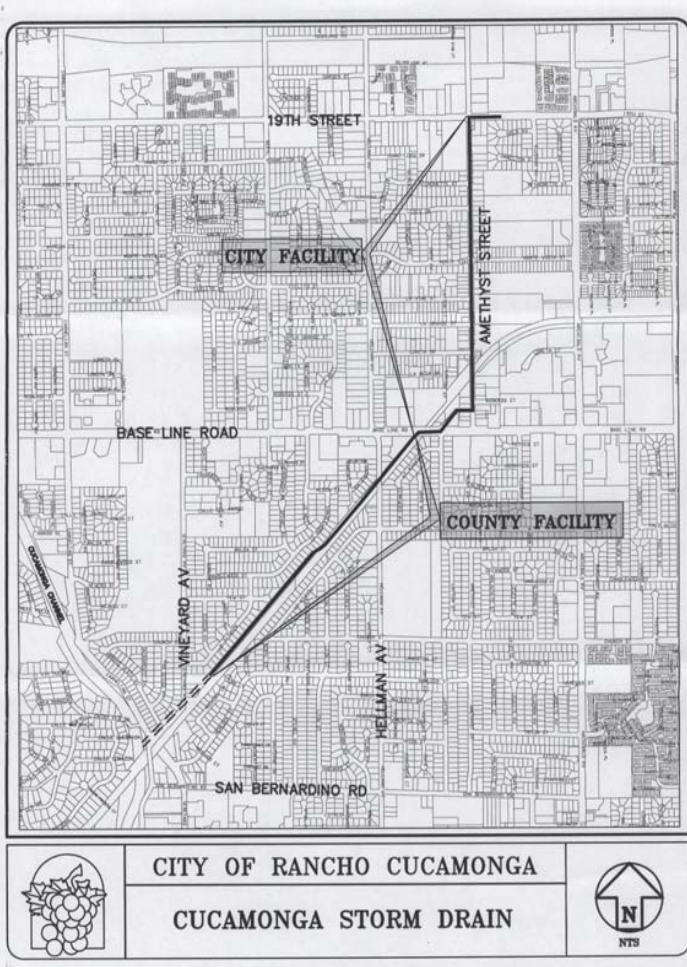
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

William J. O'Neil
City Engineer

Enclosures

Copy: Jerry A. Dyer, Senior Civil Engineer

RANCHO CUCAMONGA – Cucamonga Drain



✓ Request proceeding w/ agreement for \$2.6 million in funding to upgrade Cucamonga Storm Drain, from Cucamonga Channel to Amethyst Avenue, to meet current District standards. City will accept operation and maintenance of facility after improvements. Construction cost estimate = \$4.5 million.

UPLAND



**City of Upland
Public Works Department**
1370 N. Benson Avenue
Upland, CA 91786
Telephone (909) 931-4230
Facsimile (909) 931-4274

March 19, 2007

Melissa L. Walker, P.E., Chief Flood Control Planning Division
County of San Bernardino, Department of Public Works
825 East Third Street
San Bernardino, CA 92415-0835

**Subject: Zone 1 Funding Request for City of Upland Priority Projects
Euclid Avenue & Foothill Boulevard Storm Drains**

Dear Ms. Walker:

As part of an on-going effort to implement drainage capital improvements, the City of Upland identi two proposed master planned storm drains which, when constructed, will mitigate existing flood conditions along Euclid Avenue and Foothill Boulevard. Project descriptions and associated cost summarized below:

Euclid Avenue Storm Drain

The proposed Euclid Avenue Storm Drain will consist of approximately 2.6 miles of reinforced concrete pipe from south of 9th Street to 19th Street, crossing 10 major east-west streets. The design Q_{100} is 1.1 cfs at the southerly terminus, and utilizes pipe sections ranging from 30 to 96-inch diameters, which be installed to depths of approximately 15 to 20 feet below ground surface.

The proposed storm drain will connect to the existing South Upland Storm Interceptor, Segment 2 (S1 2), a San Bernardino County Flood Control District regional facility, completed in cooperation betw the District and City in 1998. The SUSI project outlets into the County's 8th Street Basin, a f detention and recharge basin. Construction of the proposed Euclid Avenue Storm Drain will serv collecting and directing storm water flows to the basin, providing an increased capability to rech ground water table levels.

In addition to ground water recharge supply benefits, the proposed project benefits multiple pt agencies (State and City) and will provide flood protection to the surrounding community. Up Christian High School, State Route 83, and the surrounding residential and commercial developm will benefit directly from installation of the proposed storm drain. Evidenced by past storm events, public has difficulty exiting from their vehicles along Euclid Avenue. A few years ago, a two

CITY OF UPLAND
460 North Euclid Avenue, Upland, CA 91786-4732 • (909) 931-4100 • FAX (909) 931-9923 • TDD (800) 735-2929
www.ci.upland.ca.us
Mayor John "JP" Pomareski • Mayor Pro Tem Brendan Brandt • Council Members: Ray Musser, Tom R. Thomas, Kenneth W. Wilks, City Manager Robb Quency

Euclid Avenue Storm Drain
Foothill Blvd. Storm Drain
Zone 1 Funding Request
03-19-2007
Page 2 of 3

attempting to exit her vehicle during a rain storm was swept under the vehicle by the swift flows. The opportunity to virtually eliminate this safety concern is viable with implementation of this project.

Project costs are estimated at \$8 million, including design, environmental, and construction. The City requests financial assistance from the Flood Control District Zone 1 Advisory Committee in the amount of \$ 7.2 million for the construction phase of the contemplated improvements. The City is willing to contribute the 10% minimum cost share as required under the project prioritization guidelines, and may be able to contribute additional funds as program budgets allow.

Foothill Boulevard Storm Drain

The proposed Foothill Boulevard Storm Drain will consist of approximately 2 miles of reinforced concrete box sections from 2,100 feet east of Mountain Avenue to Campus Avenue, crossing 3 major north/south streets. The design Q_{100} is 1,010 cfs at the easterly terminus and utilizes 12-ft by 8-ft box sections, which will be installed to depths of approximately 15 to 20 feet below ground surface.

At ultimate build-out, the proposed storm drain will connect to three separate storm drain systems, one of which is scheduled for construction this Summer. All three future systems run south from Foothill Boulevard to the existing South Upland Storm Interceptor, Segments 1 and 2 (SUSI-1, SUSI-2), San Bernardino County Flood Control District regional facilities, completed in cooperation between the District and City in 1997 and 1998 respectively. The SUSI projects outlet into the County's 8th Street Basin, a flood detention and recharge basin. Construction of the proposed Foothill Boulevard Storm Drain will serve in collecting and directing storm water flows to the basin, providing an increased capability to recharge ground water table levels.

In addition to ground water recharge supply benefits, the proposed project benefits multiple public agencies (State, City, and School District) and will provide flood protection to the surrounding community. Upland High School, historic State Route 66, and the surrounding residential and commercial developments, will benefit directly from installation of the proposed storm drain.

Project costs are estimated at \$10 million, including design, environmental, and construction. The City requests financial assistance from the Flood Control District Zone 1 Advisory Committee in the amount of \$9 million for the construction phase of the contemplated improvements. The City is willing to contribute the 10% minimum cost share as required under the project prioritization guidelines, and may be able to contribute additional funds as program budgets allow.

It is commonly known that water in California is at a true premium. Water collection provided for by implementation of these two projects will undoubtedly help to supply and support water guarantees for generations to come.

Enclosed please find project location maps and photographs illustrating the vital need for the drainage improvements.

CITY OF UPLAND
460 North Euclid Avenue, Upland, CA 91786-4732 • (909) 931-4100 • FAX (909) 931-9923 • TDD (800) 735-2929 • www.ci.upland.ca.us
Mayor John "JP" Pomareski • Mayor Pro Tem Brendan Brandt • Council Members: Ray Musser, Tom R. Thomas, Kenneth W. Wilks, City Manager Robb Quency

Euclid Avenue Storm Drain
Foothill Blvd. Storm Drain
Zone 1 Funding Request
03-19-2007
Page 3 of 3

The City of Upland appreciates the opportunity to submit these two regionally significant projects for Zone 1 funding consideration. Should you have any questions, please contact Mr. Bob Critchfield, P.E., Senior Engineer, at (909) 291-2946.

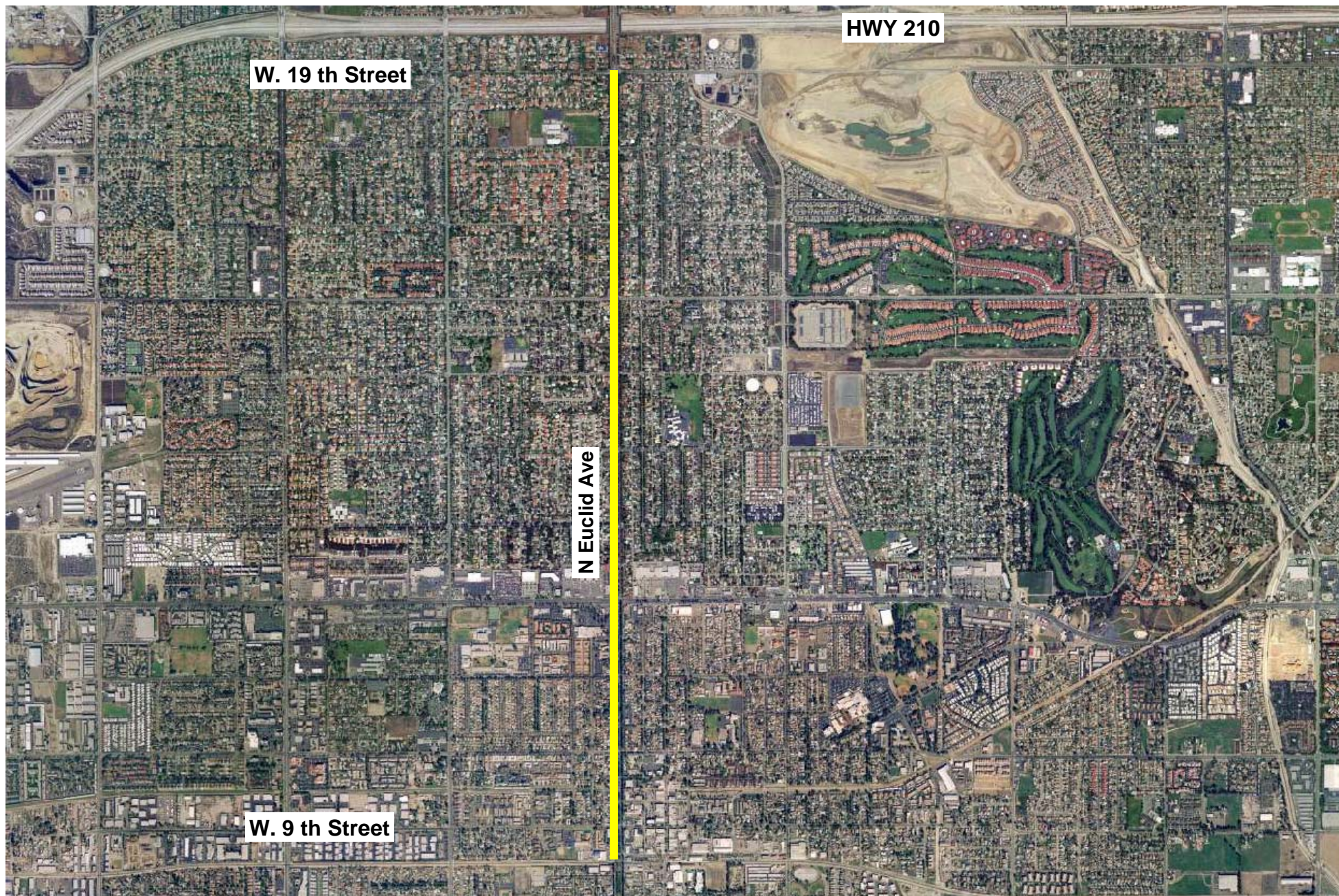
Sincerely,

Anthony M. La, P.E.
Public Works Director / City Engineer

Enclosures: 1. Project Location Map
2. Photograph's

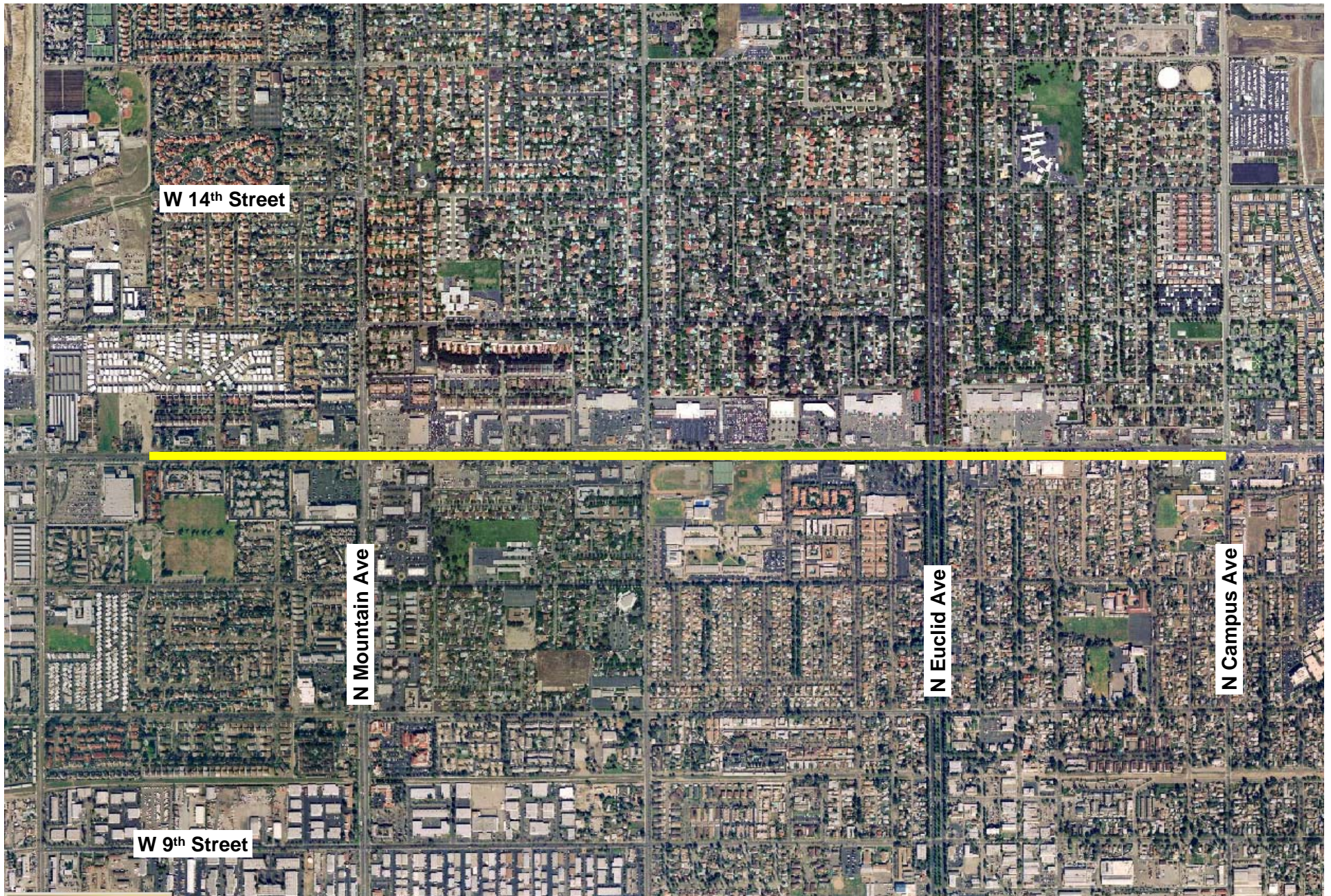
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UPLAND – Euclid Avenue Storm Drain



✓The City requests financial assistance in the amount of \$7.2 million for the construction of the proposed Euclid Avenue Storm Drain. The project consists of approx. 2.6 miles of reinforced concrete pipe crossing 10 major streets. Project costs are estimated at \$8 million. The City is willing to contribute the 10% minimum cost share.

UPLAND – Foothill Boulevard Storm Drain



✓The City requests financial assistance in the amount of \$9 million for the construction of the proposed Foothill Boulevard Storm Drain. The project consists of approx. 2 miles of reinforced concrete box, crossing 3 major streets. Project costs are estimated at \$10 million. The City is willing to contribute the 10% minimum cost share.

DISTRICT – SAN SEVAINE BASIN #5

INTEROFFICE MEMO

DATE 12/04/2006

PHONE 387-8000

FROM **CHRIS SMITH**, Flood Control Superintendent
Department of Public Works

MAIL CODE 0835



TO Melissa Walker, Public Works Engineer III
Flood Control Planning

SUBJECT San Sevaime Basin # 5 Outlet Gate Modification

Operations is requesting a project on San Sevaime Basin # 5 to modify the existing outlet gate. The current operation of this gate utilizes a hydraulic lifting mechanism. There are some environmental concerns as well as operational concerns. The environmental concerns are that the system at times seeps hydraulic fluid around the structure and has to be cleaned periodically. In addition if the system ever failed during a storm event it may contaminated the flows. If the hydraulic system fails due to line failure or cylinder lift failure there is no way possible to open or closed the gate until the impounding water and flows have subsided. Our request is to modify this system to an electrical operated with a manual override system. This would also require the construction of a catwalk to access the lifting mechanism. This type of electrical lift mechanism would be almost maintenance free and would provide a backup to operate the gate if the system were to fail due to power outages or some other type of failure. The estimated costs of the system are as follows.

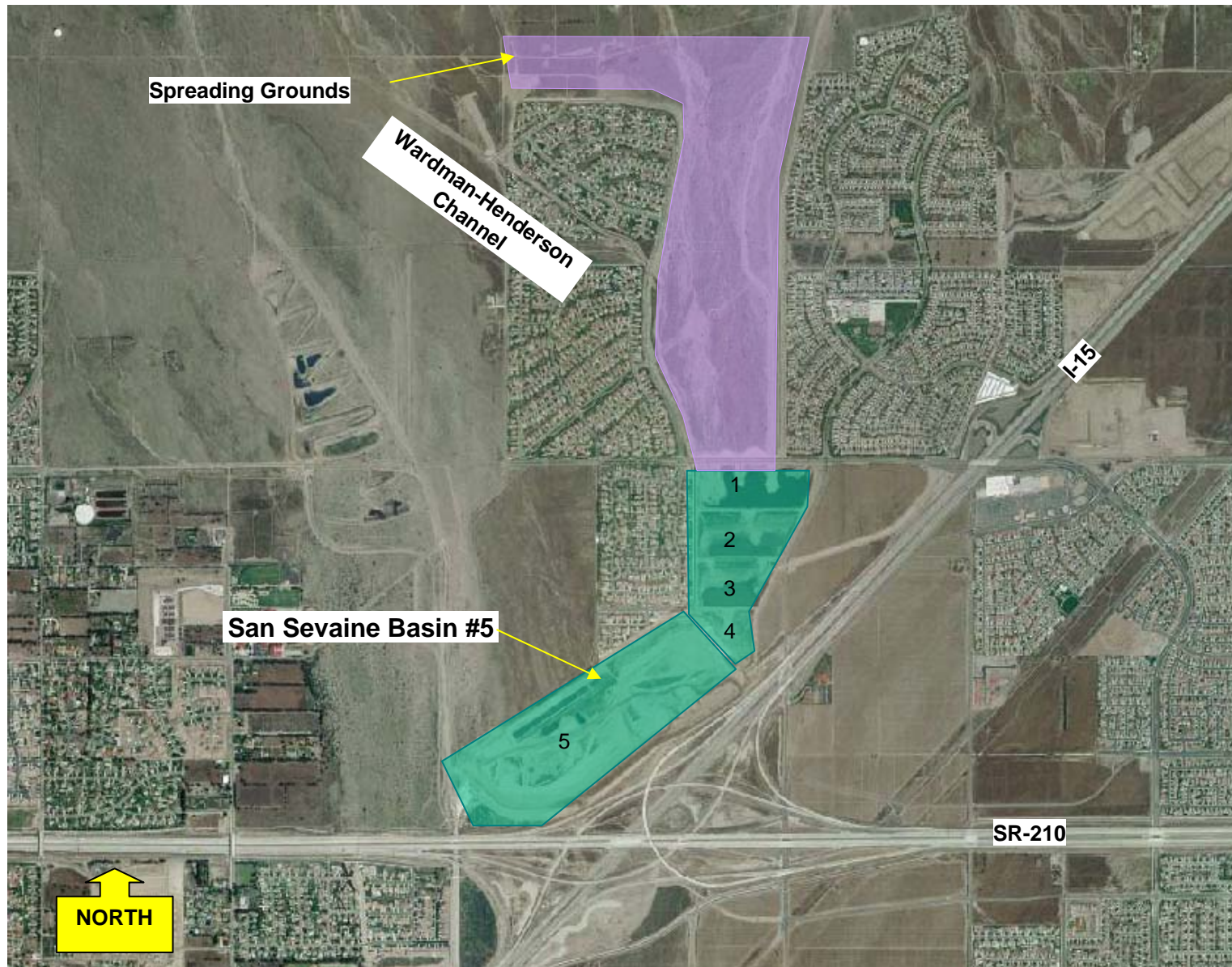
Waterman Gate lifting Mechanism	\$49892.52
Catwalk Construction	\$140,000.00
Electrical Controls	\$20,000.00
Total	\$209892.52

This estimate does not include Engineers design cost.

Attachment:

Cc: Annesley Ignatius
Ken Eke
Scott Ryan

DISTRICT – SAN SEVAINE BASIN #5



✓The DISTRICT is requesting a project to modify the existing outlet gate for San Sevaire Basin #5 to an electrical operated with a manual override system. Project costs are estimated at \$209,900.